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Press Release

Boundary scan in combination with automotive applications for CAN-FD and LIN bus

SCANFLEX II expansion module offers interface tests for serial bus systems

Serial communication remains the backbone of electronic communication in the automotive sector. The cost-effective LIN bus with master-slave architecture and the fast multi-host fieldbus CAN-FD (Controller Area Network) have become established in this field. The great advantage and efficiency of the applications lies in the combination of both bus systems. GÖPEL electronic has now introduced an extension for the SCANFLEX Multi Port Bus I/O Module 9305 for these interfaces, which makes the functional diversity of the SCANFLEX system available for automotive interfaces in production testing.

With the new BAC module for CAN-FD/LIN, these interfaces can now be tested for functionality during production. The Bus Access Cable (BAC) is connected to one of the five slots of the SCANFLEX Multi Port Bus I/O Module 9305 and thus connected to the SCANFLEX system. This enables access to the complex test functions of the SCANFLEX boundary scan controller. The controller then takes over the simultaneous generation and dynamic distribution of the vectors and control sequences to the interfaces.

SCANFLEX is a modular JTAG/boundary scan controller. Based on state-of-the-art multi-core processors and FPGAs, it allows users to execute test and programming technologies from Embedded JTAG Solutions. Its multifunctional architecture enables these technologies to be combined flexibly and with high performance on a single platform. SCANFLEX II has eight

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independent, truly parallel test access ports (TAP) for up to 100MHz. This enables the synchronized execution of embedded test, debug, and programming operations via boundary scan (IEEE1149.x), processor emulation, chip integrated instruments, or the embedded diagnostics method.

About GÖPEL electronic

GÖPEL electronic develops and manufactures innovative electrical and optical test, measurement, and inspection equipment for electronic components and printed circuit board assemblies as well as industrial and automotive electronics systems. GÖPEL electronic has four business units:
- Automotive Test Solutions
- Embedded JTAG Solutions
- Inspection Solutions AOI-AXI-SPI-IVS
- Industrial Function Test

The company is active worldwide, with its own subsidiaries as well as through distributors, and generated sales of approximately 40 million euros in 2023 with 240 employees.
Further information: www.goepel.com/en

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